IDG2003 – Lab7

Exercise 1 : - In this lab, the task is to create a database management system for an online bookshop.

(a) Connect to database as root user. Create a database named booklist.

(b) Create:

1. A table named books with:

   isbn, title, publisher, and pages.

2. A table named customers with:

   username, name, surname, and address.

3. An table named orders with:

   order_id, isbn, username, and quantity.

(c) Insert some dummy data to books table.

ISBN	Title	Author	Pages
99590085	Sapiens : A Brief History of Humankind	Yuval Noah Harari	512
141036141	1984	George Orwell	336
141198966	Frakenstein	Mary Shelley	288
198788606	The Selfish Gene	Richard Dawkins	496
393351378	The Science of Interstellar	Kip Thorne	336
857501003	A Brief History of Time	Stephen Hawking	272

(d) Create functions for :

1. Reading data from a table given the table name. The function should return an associative array
2. Create a new customer, given the relevant parameters
3. Update a customer's details given the relevant parameters.
4. Read customer details given username
5. Read book details given ISBN
6. Create a new Order given the relevant details
7. Delete Order given order_id
8. Create an HTML table that takes an associative array as input.
9. Validate user input, checking that no fields from a form is left empty. The function takes in an associative array.

(e) Create a PHP file displaying all the orders by reading data from books, customers, and orders tables and present the following data in a HTML table:

order id, customer id, customer name, customer surname, customer address, isbn, book title (ordered), publisher, and quantity.

Use above list of functions to do the following :

1. Right after the table, provide a form that allows creating a new order.
2. Form should ask for customer details, book details and order quantity information, which are: personal id, name, surname, address, isbn, and quantity.
3. If a given user does not exist in the database, add it to the corresponding table.
4. If the user exists update his details.
5. If there is no book corresponding to given isbn, do not add the order.
6. All the fields has to be filled in.
7. Once order is added update the HTML table.
8. It should be possible to delete an order from the table.
9. When an order is added or deleted, display a message stating success along with the order number.